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(21) International Application Number: PCT/GB94/02423 (22) International Filing Date: 4 November 1994 (04.11.94) (30) Priority Data: 9323008.4 5 November 1993 (05.11.93) GB (71) Applicant (for all designated States except US): CANCER RESEARCH CAMPAIGN TECHNOLOGY LIMITED [GB/GB]; Cambridge House, 6-10 Cambridge Terrace, Regent's Park, London NW1 4JL (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): CONNORS, Thomas [GB/GB]; MRC Toxicology Unit, MRC Laboratories, Woodmansterne Road, Carshalton, Surrey SM5 4EF (GB). KNOX, Richard [GB/GB]; The Institute of Cancer Research, Royal Cancer Hospital, 15 Cotswold Road, Belmont, Sutton, Surrey, SM2 5NG (GB). SHERWOOD, Roger [GB/GB]; PHLS Centre for Applied Microbiology & Research, Division of Biotechnology, Porton Down, Salisbury, Wiltshire SP4 0JG (GB). (74) Agents: GOLDIN, Douglas, Michael et al.; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5LX (GB).		(81) Designated States: AU, CA, JP, NZ, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 15 June 1995 (15.06.95)
(54) Title: IMPROVEMENTS RELATING TO CANCER THERAPY (57) Abstract The system of the invention comprises: (i) a viral vector comprising a nucleotide sequence encoding a nitroreductase, which nitroreductase is capable of converting a prodrug into a cytotoxic drug; and (ii) a prodrug capable of being converted into a cytotoxic drug by the nitroreductase encoded by the vector.		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 94/02423

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/53 C12N15/86 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP,A,0 330 432 (THE DEPARTMENT OF MOLECULAR PHARMACOLOGY, INSTITUTE OF CANCER RESEARCH) 30 August 1989 see column 3 and 7 ---	12
X	EP,A,0 540 263 (CANCER RESEARCH CAMPAIGN TECHNOLOGY LIMITED) 5 May 1993 see pages 4-6	12
Y	see the whole document --- -/--	1-11, 13-17

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

27 April 1995

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INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BIOCHEM.PHARMACOL., vol.44, no.12, 15 December 1992, ENGLAND pages 2289 - 2295 ANLEZARK, G.M. ET AL. 'The bioactivation of 5-(aziridin-1-yl)-2,4-dinitrobenzamide (CB1954)--I. Purification and properties of a nitroreductase enzyme from Escherichia coli -- a potential enzyme for antibody-directed enzyme prodrug therapy (ADEPT)' see Figure 1	12
Y	see whole document	1-11, 13-17
Y	--- PROC.NATL.ACAD.SCI., vol.88, September 1991, USA pages 8039 - 8043 HUBER, B.E. ET AL. 'Retroviral-mediated gene therapy for the treatment of hepatocellular carcinoma: An innovative approach for cancer therapy' see page 8040, left-hand column, lines 6-25 to right-hand column, lines 1-14; page 8043, right-hand column, last paragraph	1-11, 13-17
Y	--- PROC.NATL.ACAD.SCI., vol.89, 1992, USA pages 33 - 37 MULLEN, C.A. ET AL. 'Transfer of the bacterial gene for cytosine deaminase to mammalian cells confers lethal sensitivity to 5-fluorocytosine: a negative selection system' -----	1-11, 13-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 94/02423

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP-A-0330432	30-08-89	AU-A- 3439889	06-09-89
		EP-A- 0429454	05-06-91
		WO-A- 8907592	24-08-89
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EP-A-0540263	05-05-93	AU-A- 2776992	21-05-93
		EP-A- 0638123	15-02-95
		WO-A- 9308288	29-04-93
		JP-T- 7501692	23-02-95

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